PTO/SB/17 (10-03)

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Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

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Complete if Known					
Application Number	10/071,032				
Filing Date	February 8, 2002				
First Named Inventor	Richard Dennis Dyer				
Examiner Name	Tamthom Ngo Truong				
Art Unit	1624				
Attorney Docket No.	A0000425-01-CFP				

METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued)						
Check Credit card Money Other None						
Deposit Account:			Small		•	
Donosit	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Account Number Warner-Lambert Company LLC	1051	130	2051		Surcharge - late filing fee or oath	Ce r alu
Deposit Account 23-0455	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
Name	1053	130	1053	130	Non-English specification	
The Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments	1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*	Requesting publication of SIR prior to	
Charge fee(s) indicated below, except for the filing fee	1905	1,840*	1905	1 9/0*	Examiner action Requesting publication of SIR after	
to the above-identified deposit account.	1603	1,040	1803	1,040	Examiner action	
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	
1. BASIC FILING FEE	1252	420	2252	210	Extension for reply within second month	
Large Entity Small Entity	1253	950	2253	475	Extension for reply within third month	
Fee Fee Fee Fee Fee Description Fee Paid Code (\$)	1254	1,480	2254	740	Extension for reply within fourth month	
1001 770 2001 385 Utility filing fee	1255	2,010	2255	1,005	Extension for reply within fifth month	
1002 340 2002 170 Design filing fee	1401	330	2401	165	Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief in support of an appeal	
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 0.00	1452	110	2452	55	Petition to revive - unavoidable	
	1453	1,330	2453	665	Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Fee from	1501	1,330	2501	665	Utility issue fee (or reissue)	
Extra Claims below Fee Paid Total Claims 0 -20** = X 18.00 = 0.00	1502	480	2502		Design issue fee	
Total Claims	1503	640	2503		Planti ssue fee	
Claims	1460	130	1460	130	Petitions to the Commissioner	
	1807	50	1807	7 50	Processing fee under 37 CFR 1.17(q)	100.00
Large Entity Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806		Submission of Information Disclosure Stmt	180.00
Code (\$) Code (\$)	8021	40	802	1 40	Recording each patent assignment per property (times number of properties)	
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809		Filing a submission after final rejection (37 CFR 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional invention to be	
1204 86 2204 43 ** Reissue independent claims					examined (37 CFR 1.129(b))	
over original patent	1801	770	2801	385		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 0.00	Other	fee (sp	ecify) _		,	
**or number previously paid, if greater; For Reissues, see above	*Redu	ced by	Basic I	Filing F	ee Paid SUBTOTAL (3) (\$) 180.0	00

SUBMITTED BY

Name (Print/Type)

Claude F. Purchase, Jr.

Registration No. (Attorney/Agent)

Advist & Joo4

Date

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Substitute for form 1449/PTO

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known			
Application Number	10/071,032		
Filing Date	February 8, 2002		
First Named Inventor	Richard Dennis Dyer		
Art Unit	1624		
Examiner Name	Tamthom Ngo Truong	• .	
Attorney Docket Number	A0000425-01-CFP		

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear	
	<u> </u>	Number-Kind Code ^{2 (f known)}	01 02 2002	III	1 iguies Appeal	
		US- 2003/0004172	01-02-2003	Harter, et al		
		US- 2003/0078276	04-24-2003	Andrianjara, et al		
		US- 2002/0193377	12-19-2002	Andrianjara, et al		
		US- 2003/0144274	07-31-2003	Bunker, et al		
		US-2003/0130278	07-10-2003	Gaudilliere, et al		
		US- 2003/0216402	11-20-2003	Gaudilliere, et al.		
		us- 2004/0006077	01-08-2004	Gaudilliere, et al		
		US- 2004/0063673	04-01-2004	Johnson		
		US- 2004/0034054	02-19-2004	Wilson		
		us- 2004/0038973	02-26-2004	Nahra et al.		
		US- 2004/0039012	02-26-2004	Wilson		
		US- 2004/0038994	02-26-2004	Wilson		
		^{US-} 2004/0043991	03-04-2004	Picard et al.		
		US- 4,419,356	12-06-1983	Debarre et al.		
		US-4,421,914	12-20-1983	Okamura et al.		
		us-4,383,996	05-17-1983	Oba et al.		
		^{US-} 4,302,585	11-24-1981	Wei et al.		
		^{US-} 10/739,261		Bunker et al.	Filed 12-18-2003	
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FOREIGN PATENT DOCUMENTS						
Examiner Cite Initials* No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages		
		Country Code ³ "Number ⁴ "Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶
		WO 02/064599	08-22-2002	Dyer et al		
		WO 02/064598	08-22-2002	Harter, et al		
		WO 02/064080	08-22-2002	Andrianjara, et al		Г
		WO 02/064572	08-22-2002	Andrianjara, et al		
		WO 03/032999	04-24-2003	Bunker et al.		
		WO 03/033478	04-24-2003	Gaudilliere et al.		

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Application Number

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Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Art Unit 1624 (Use as many sheets as necessary) Examiner Name Tamthom Ngo Truong

Filing Date February 8, 2002 First Named Inventor Richard Dennis Dyer Attorney Docket Number A0000425-01-CFP

Complete if Known

10/071,032

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T⁵
		WO 03/076417	09-18-2003	Gaudilliere et al.		
		WO 2004/000322	12-31-2003	Gaudilliere et al.		Г
		WO 2004/014384	02-19-2004	Johnson		T
		WO 2004/014375	02-19-2004	Wilson		
		WO 2004/014365	02-19-2004	O'Brien et al.		Т
		WO 2004/014908	02-19-2004	Wilson		H

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Translation is attached.

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY			T
		WO 2004/014916	02-19-2004	Wilson		
-		WO 2004/014923	02-19-2004	Picard et al.		Ī
		WO 96/38434	12-05-1996	Hupe et al.		
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Substitute for form 1449/PTO				Complete if Known		
Substitute	e 101 101111 1443/1 10		•	Application Number	10/071,032	
INFO	DRMATION	I DIS	CLOSURE	Filing Date	February 8, 2002	
STA	STATEMENT BY APPLICANT			First Named Inventor	Richard Dennis Dyer	
	(Use as many she			Art Unit	1624	
	(USB as many sne	ets as m	ecessary)	Examiner Name	Tamthom Ngo Truong	
Sheet	4	of	4	Attorney Docket Number	A0000425-01-CFP	

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	·	Office Action from 10/264,764 (PC20536A) mailed 6.16.03	
		LOVEJOY et al., "Crystal structures of MMP-1 and -13 reveal the structural basis for selectivity of collagenase inhibitors", Nature Structural Biology, 1999, Vol. 6, No. 3, pages 217-221	
		MOY et al., "High-resolution Solution Structure of the Catalytic Fragment of Human Collagenase-3 (MMP-13) Complexed with a Hydroxamic Acid Inhibitor", J. Mol. Biol., 2000, Vol. 302, 671-689	
		MITCHELL et al., "Cloning, Expression, and Type II Collagenolytic Activity of Matrix Metalloproteinase-13 from Human Osteoarthritic Cartilage", J. Clin. Invest., 1996, Vol. 97, No. 3, pages 761-768	
		NEUHOLD et al., "Postnatal expression in hyaline cartilage of constitutively active human collagenase-3 (MMP-13) reduces osteoarthritis in mice", J. Clin. Invest., 2001, Vol. 107, No. 1, pages 35-44	
		DAHLBERG et al., "Selective Enhancement of Collagenase-Mediated Cleavage of Resident Type II Collagen in Cultured Osteoarthritis Cartilage and Arrest with a Synthetic Inhibitor that Spares Collagenase 1 (Matrix Metalloproteinase 1)", Arthrit. & Rheum., 2000, Vol. 43, No. 3, pages 673-682	
		BILLINGHURST et al., "Comparison of the Degradation of Type II Collagen and Proteoglycan in Nasal and Articular Cartilages Induced by Interleukin-1 and the Selection Inhibition of Type II Collagen Cleavage by Collagenase", Arthrit. & Rheum., 2000, Vol. 43, No. 3, pages 664-672	
		BILLINGHURST et al., "Enhanced Cleavage of Type II Collagen by Collagenases in Osteoarthritic Articular Cartilage", J. Clin. Invest., 1997, Vol. 99, No. 7, pages 1534-1545	
		HIROTA et al., "Novel Synthesis of Pyrido[3,4-d]pyrimidines, Pyrido[2,3-d]pyrimidines, and Quinazolines via Palladium-Catalyzed Oxidative Coupling", Heterocycles, 1994, Vol. 37, No. 1, pages 563-570	
		PCT International Search Report, PCT/IB02/00313	

Examiner	Date	
Signature	Considered	

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